

Title (en)  
BATTERY MODULE

Title (de)  
BATTERIEMODUL

Title (fr)  
MODULE DE BATTERIE

Publication  
**EP 3648219 A1 20200506 (EN)**

Application  
**EP 18823776 A 20180625**

Priority  
• CN 201710524950 A 20170630  
• CN 2018092602 W 20180625

Abstract (en)  
A battery module is provided, including a plurality of battery units stacked along a preset direction and a top panel, where the battery unit includes a battery and an insulation film, the battery includes a battery housing, a battery core disposed inside the battery housing, and a battery cover plate disposed on an end portion of the battery housing; the insulation film is coated at least on a side face of the battery housing, the insulation films of every two adjacent battery units are bonded to each other in the preset direction to connect the plurality of battery units together; and the insulation film includes an extension portion, where the extension portion is formed by a top portion of the insulation film which protrudes from the battery cover plate and extends upward, the top panel is disposed on an upper side of the battery unit, a groove is provided on a lower side of the top panel, and at least part of the extension portion is accommodated in the groove. The present disclosure realizes weight reduction of the battery module without decreasing the strength of the battery module.

IPC 8 full level  
**H01M 10/04** (2006.01); **H01M 50/204** (2021.01); **H01M 50/209** (2021.01)

CPC (source: CN EP KR US)  
**H01M 10/6555** (2015.04 - EP KR); **H01M 10/658** (2015.04 - EP KR); **H01M 50/20** (2021.01 - KR); **H01M 50/209** (2021.01 - CN EP KR US); **H01M 50/24** (2021.01 - KR); **H01M 50/593** (2021.01 - US); **H01M 10/6555** (2015.04 - US); **H01M 10/658** (2015.04 - US); **Y02E 60/10** (2013.01 - KR US); **Y02P 70/50** (2015.11 - KR)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3648219 A1 20200506**; **EP 3648219 A4 20200617**; **EP 3648219 B1 20220803**; CN 109216600 A 20190115; CN 109216600 B 20210903; JP 2020525996 A 20200827; JP 6858304 B2 20210414; KR 102271654 B1 20210702; KR 20200020873 A 20200226; US 11335982 B2 20220517; US 2021159576 A1 20210527; WO 2019001384 A1 20190103

DOCDB simple family (application)  
**EP 18823776 A 20180625**; CN 201710524950 A 20170630; CN 2018092602 W 20180625; JP 2020500034 A 20180625; KR 20207001936 A 20180625; US 201816627652 A 20180625